

ABSTRACT OF THE DISCLOSURE

A motor control apparatus includes a phase current
detecting section for detecting phase currents to a motor, a
5 current phase/current peak value calculating section for
calculating a current phase based on the phase currents, a voltage
phase setting section for adding a predetermined phase difference
to the current phase and setting the resultant sum as a voltage
phase, a phase voltage setting section for setting phase voltages
10 to the motor based on the voltage phase and the command voltage.
Basically, the motor is operated by maintaining the voltage at
constant and always monitoring the current/voltage phases so as
to maintain a constant phase difference, without the motor axis
position being predicted.